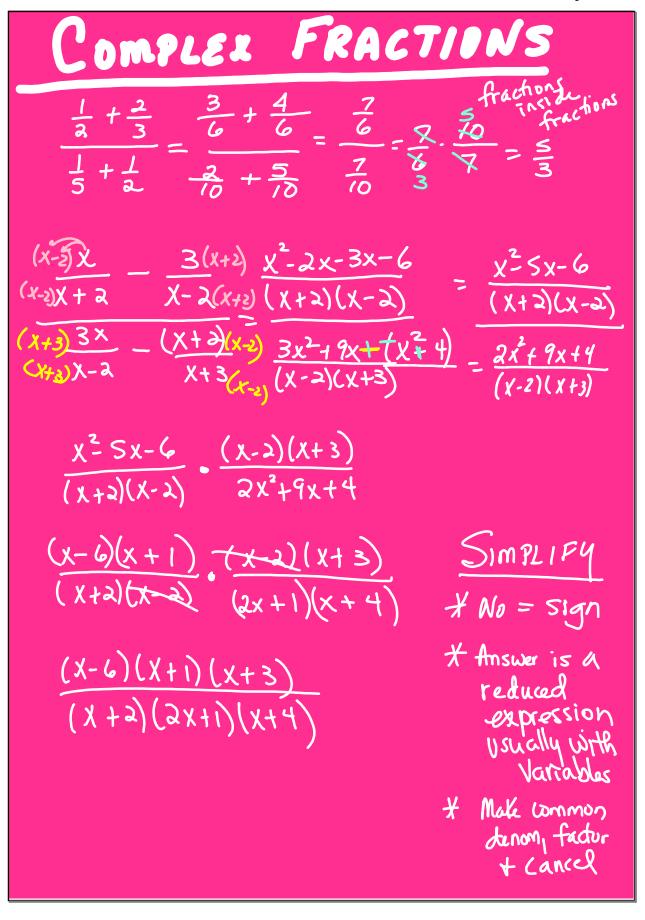
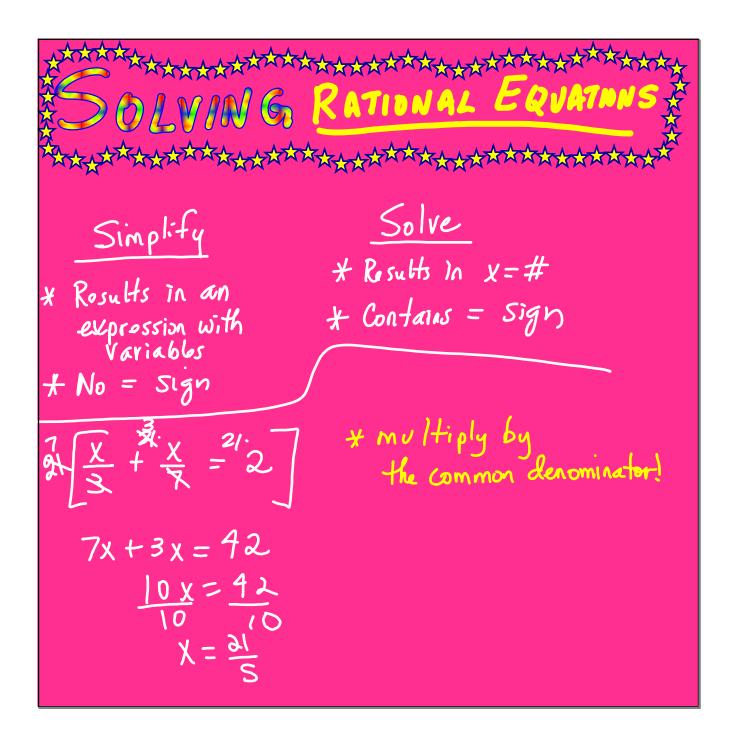
February 14, 2025





1) Factor the denominators $x^{2}-2x$ $x^{2}-x-2$ 2) Check for excluded X+5 Values 2+1) X=0,-1,2 3) Multiply by $(x-2)(x+5) - 2x(x+1) = -3x^{2}$ the common denom $\frac{X+5x-2X-10-2x^2-2x=-3x^2}{2}$ + concel all $-\chi^{2} + \chi - 10 = -3\chi^{2}$ denom 4) Write down $2x^2 + X - 10 = 0$ all terms that are left (2x+s)(x-z)=05) Combine like terms set = 0, + 2X+S=0 X-2=0 Solve Xsa () Check for exclude oxtraneous alles Solution

$$(\psi - q) \left[\begin{array}{c} (\omega - q)(\omega + 1) \\ (\omega + 1) \end{array} \right] \left[\begin{array}{c} \omega + \frac{\omega + 7}{\omega^2 - 3\omega^{-q}} \\ (\omega - 4)(\omega + 1) \end{array} \right] = \frac{\omega^2 (\omega + 1)}{\omega^{-q}} \quad \omega \neq 4, -1 \\ \\ \omega (\omega^{-1})(\omega + 1) + \omega + 7 = \omega^2 (\omega + 1) \\ \\ \omega (\omega^{2} - 3\omega^{-1}) \\ \\ \omega^{3} - 3\omega^{3} - 4\omega + \omega + 7 = \omega^{3} + \omega^{2} \\ \\ \omega^{2} - 3\omega^{2} - 3\omega + 7 = 3\omega^{2} + \omega^{2} \\ \\ 0 = 4\omega^{2} + 3\omega^{-7} \\ 0 = (4\omega + 7)(\omega^{-1}) \\ \\ \omega^{-7} |_{q} |_{\omega} = 1 \\ \end{array} \right] = \frac{eheck}{br}$$